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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,024	12/30/2005	Dan Akerfeldt	030481-0251	3920
	7590 05/30/2009 ARDNER LLP	EXAMINER		
SUITE 500		BLATT, ERIC D		
3000 K STREE WASHINGTO		ART UNIT	PAPER NUMBER	
			3734	
		MAIL DATE	DELIVERY MODE	
			05/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applica	ition No.	Applicant(s)		
		10/563	10/563,024 AKERFELDT ET AL.		AL.	
		Examin	er	Art Unit		
		Eric Bla	tt	3734		
 Period for l	The MAILING DATE of this commun	nication appears on t	the cover sheet with the	correspondence a	ddress	
A SHOF WHICH - Extensic after SIX - If NO pe - Failure t Any repl	RTENED STATUTORY PERIOD F EVER IS LONGER, FROM THE N ons of time may be available under the provisions (6) MONTHS from the mailing date of this com- riod for reply is specified above, the maximum s or reply within the set or extended period for reply by received by the Office later than three months coatent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF sof 37 CFR 1.136(a). In no munication. tatutory period will apply and will, by statute, cause the a	THIS COMMUNICATIO event, however, may a reply be till will expire SIX (6) MONTHS from application to become ABANDON	N. imely filed in the mailing date of this of ED (35 U.S.C. § 133).		
Status						
2a)⊠ Tl 3)□ S	esponsive to communication(s) filentials action is FINAL . Ince this application is in condition osed in accordance with the pract	2b)☐ This action is for allowance exce	non-final. pt for formal matters, pr		e merits is	
Disposition	of Claims					
4a 5)□ C 6)⊠ C 7)□ C	laim(s) <u>1-23</u> is/are pending in the above claim(s) is/a laim(s) is/a laim(s) is/are allowed. laim(s) <u>1-23</u> is/are rejected. laim(s) is/are objected to. laim(s) are subject to restrict papers	are withdrawn from o				
	e specification is objected to by the	o Eveminer				
10)☐ Th A _l R	te specification is objected to by the drawing(s) filed on is/are oplicant may not request that any objected to a specific policies. Including the oath or declaration is objected the oath or declaration is objected the specific policies.	: a) ☐ accepted or ection to the drawing(sg the correction is req) be held in abeyance. Se uired if the drawing(s) is ol	ee 37 CFR 1.85(a). ojected to. See 37 C		
Priority un	der 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice of the control of the cont) If References Cited (PTO-892) If Draftsperson's Patent Drawing Review (Icion Disclosure Statement(s) (PTO/SB/08) Io(s)/Mail Date	PTO-948)	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Oate		

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DETAILED ACTION

Response to Amendment

Acknowledgement is made of the amendment filed January 15, 2008 amending claims 1-18

adding new claims 19-23.

Response to Arguments

Applicant's arguments filed January 15, 2008 have been fully considered but they are not

persuasive. Applicant argues that Van Tassel et al. (US 6,949,113) and Torgerson et al. (US

6,361,551) are directed toward different applications than Applicant's invention, and thus are not

properly combined with Akerfeldt et al. (WO 00/78226). Although Applicant correctly states

that Van Tassel is directed to a device inserted into an atrial appendage and Torgerson is directed

primarily to a process for making collagen fibers to prepare haemostatic fabrics to control

bleeding, both Van Tassel and Torgerson teach that substances having haemostatic properties are

useful for controlling bleeding, and these teachings are quite relevant to the vessel wall sealing

device disclosed in Akerfeldt. The combinations of the haemostatic materials of Van Tassel and

Torgerson with the sealing device of Akerfeldt are therefore appropriate.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and

requirements of this title.

Claims 3, 4, 6, 8, and 19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Said claims positively claim a portion of a human being, specifically a vessel wall. The Examiner suggests amending said claims to recite that the element is *configured to* be positioned against a vessel wall.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 15, 16, and 19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akerfeldt et al. (WO 00/78226) in view of Van Tassel et al. (US 6,949,113).

Regarding claims 1-9, 15, 16, and 19-23, Akerfeldt discloses a method and device (Figures 1-2) for sealing a puncture in a vessel, comprising a sealing element 2 configured to be placed against a wall of the vessel and to seal the puncture in the vessel by contacting the vessel wall, an outer member 3 configured to be placed outside of the vessel. Akerfeldt additionally discloses an elongated member comprising at least suture 6 and longitudinally extending post 7. The elongated member 6, 7 is configured to extend in an incision canal leading to the puncture in the vessel and hold together the sealing element and the outer member. Outer member 3 comprises a locking element 3 connected to the elongated member and adapted to be positioned against an outer surface of the vessel wall, and the sealing element is in the form of a plug. The inner member 2 comprises an anchor member 2 connected to the elongated member 6, 7. The

outer member 3 comprises a second sealing element 3 having saw-teeth that fit into corresponding recesses on a portion of the elongated member 6, 7 that extends through the second sealing element 3.

Akerfeldt does not disclose the elongated member, plug, and locking element/second sealing element comprise a haemostatic material. Van Tassel discloses that it is old and well known to have closure devices designed to seal blood vessel walls comprise a haemostatic material. (Column 12, Lines 21-23) It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Akerfeldt by having the elongated member, the plug, and the locking element comprise a haemostatic material for purposes such as encouraging blood to coagulate, thereby preventing the vessel from leaking. So modified, said elements are configured to introduce haemostatic material into the incision canal to reduce secondary bleeding into the incision canal.

Akerfeldt does not disclose that the elongated member having a diameter that is small, less than 25%, preferably less than 10%, in comparison to the diameter of the sealing element. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the dimensions of the elongated member and the sealing element since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Claims 1-4, 6, 8, and 10-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akerfeldt et al. (WO 00/78226) in view of Torgerson et al. (US 6,361,551).

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Regarding claims 1-4, 6, 8, and 10-23, Akerfeldt teaches all elements of said claims as previously discussed except that the elongated member comprises a haemostatic material such that the haemostatic material is a core of the elongated member (Claim 10), the elongated member is coated with the haemostatic material (Claim 11), the elongated member is impregnated or soaked with the haemostatic material (claim 12), or the elongated member is a multifilament comprising several filaments, each of which is coated with the haemostatic material (Claim 13). Akerfeldt additionally does not disclose that the haemostatic material is collagen. Torgerson discloses a fiber (elongated member) wherein the elongated member comprises a haemostatic material (Columns 1-3), the haemostatic material is a core of the elongated member (the whole fiber is haemostatic material, thus the core is haemostatic material), the elongated member is coated with the haemostatic material (Columns 1-3), the elongated member is impregnated or soaked with the haemostatic material (Columns 1-3), and the elongated member is a multifilament comprising several filaments, each of which is coated with the haemostatic material (Columns 1-3, Column 13, Lines 14-15). Additionally, Torgerson discloses that said haemostatic material is collagen.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Akerfeldt by substituting the fiber disclosed in Torgerson for the elongated member 10 for purposes such as encouraging blood to coagulate, thereby preventing the vessel wall from leaking.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Blatt whose telephone number is (571)272-9735. The examiner can normally be reached on Monday-Friday, 9:00 AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Todd Manahan can be reached on 571-272-4713. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin T. Truong/ Primary Examiner, Art Unit 3734

Eric Blatt 571-272-9735